Performance Data Sheet

RGA5512EXA

General Information

Model	RGA5512EXA	**Refrigerant**	R-22
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	10K (18°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-25	Watts (Capacity)	982			
	Watts (Power)	601			
	Amps	6.14			
-23.3	Watts (Capacity)	1080	941		
	Watts (Power)	615	677		
	Amps	6.23	6.72		
-20	Watts (Capacity)	1290	1140		
	Watts (Power)	637	715		
	Amps	6.40	6.98		
-15	Watts (Capacity)	1650	1480	1290	
	Watts (Power)	664	762	849	
	Amps	6.60	7.32	8.19	
-10	Watts (Capacity)	2060	1870	1640	1390
	Watts (Power)	681	798	911	1010
	Amps	6.74	7.60	8.61	9.77
-6.7	Watts (Capacity)	2370	2160	1900	1620
	Watts (Power)	689	815	945	1060
	Amps	6.80	7.75	8.86	10.1
-5	Watts (Capacity)	2540	2310	2050	1750
	Watts (Power)	691	822	960	1090
	Amps	6.82	7.82	8.97	10.3
0	Watts (Capacity)	3090	2820	2500	2150
	Watts (Power)	695	838	997	1160
	Amps	6.84	7.98	9.27	10.7

5	Watts (Capacity)	3720	3390	3010	2600
	Watts (Power)	695	846	1020	1210
	Amps	6.79	8.08	9.51	11.1
7.2	Watts (Capacity)	4020	3670	3260	2810
	Watts (Power)	693	848	1030	1230
	Amps	6.75	8.10	9.60	11.2
10	Watts (Capacity)	4420	4040	3590	3100
	Watts (Power)	690	848	1040	1250
	Amps	6.69	8.11	9.69	11.4
15	Watts (Capacity)	5220	4760	4240	3670
	Watts (Power)	684	845	1050	1280
	Amps	6.52	8.09	9.81	11.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.542510E+03	5.126910E+02	4.306300E+00	
C2	1.402750E+02	5.063770E+00	-8.735200E-02	
C3	-3.662690E+00	-3.120100E+00	6.175480E-02	
C4	2.035610E+00	8.580660E-02	-1.221660E-03	
C5	-6.173010E-01	-4.348870E-01	2.823540E-03	
C6	-4.292610E-01	3.833140E-01	7.516170E-04	
C7	8.422870E-03	1.827690E-03	0.000000E+00	
C8	-1.719020E-02	-6.019830E-03	0.000000E+00	
C9	-5.101270E-03	9.167120E-03	0.000000E+00	
C10	1.710690E-03	-2.546080E-03	0.000000E+00	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

RGA5512EXA

General Information

Model	RGA5512EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4010	3900					
	Watts	502	579					
	Amps	6.46	6.72					
	Lb/h	51.8	52.4					
-10	Btu/h	4580	4430	4250				
	Watts	528	609	663				
	Amps	6.52	6.82	7.09				
	Lb/h	58.9	59.1	59.1				
-5	Btu/h	5210	5020	4790	4550			
	Watts	550	635	694	735			
	Amps	6.58	6.93	7.25	7.54			
	Lb/h	66.5	66.5	66.2	65.7			
0	Btu/h	5900	5670	5400	5100	4810		
	Watts	568	656	721	768	803		
	Amps	6.64	7.02	7.40	7.75	8.08		
	Lb/h	74.7	74.6	73.9	73.0	72.2		
5	Btu/h	6640	6380	6060	5710	5370		
	Watts	583	674	743	797	840		
	Amps	6.70	7.12	7.53	7.95	8.36		
	Lb/h	83.7	83.3	82.4	81.1	79.8		
10	Btu/h	7460	7150	6790	6390	5980	5600	5260
	Watts	594	687	761	821	873	922	974
	Amps	6.75	7.20	7.66	8.13	8.61	9.08	9.55
	Lb/h	93.3	92.8	91.6	90.0	88.2	86.7	85.6
15	Btu/h	8340	8000	7580	7130	6660	6210	5800
	Watts	601	697	775	841	900	959	1020
	Amps	6.79	7.27	7.77	8.30	8.84	9.39	9.95
	Lb/h	104	103	102	99.7	97.5	95.5	93.8
20	Btu/h	9300	8910	8450	7940	7420	6900	6410
	Watts	605	704	786	857	924	992	1070
	Amps	6.82	7.33	7.87	8.44	9.05	9.68	10.3
	Lb/h	115	114	112	110	108	105	103

25	Btu/h	10300	9900	9390	8830	8240	7650	7090
	Watts	607	707	793	870	944	1020	1110
	Amps	6.84	7.37	7.94	8.56	9.23	9.93	10.7
	Lb/h	127	126	124	122	119	116	113
30	Btu/h	11400	11000	10400	9790	9140	8490	7850
	Watts	606	708	797	879	960	1050	1140
	Amps	6.84	7.39	7.99	8.66	9.38	10.2	11.0
	Lb/h	139	139	137	134	131	127	124
35	Btu/h	12600	12100	11500	10800	10100	9400	8690
	Watts	602	705	798	885	972	1070	1170
	Amps	6.82	7.38	8.02	8.73	9.50	10.3	11.2
	Lb/h	153	152	150	147	144	140	136
40	Btu/h	13900	13300	12700	12000	11200	10400	9600
	Watts	596	701	796	887	981	1080	1200
	Amps	6.78	7.36	8.02	8.77	9.59	10.5	11.5
	Lb/h	167	167	165	162	158	154	150
45	Btu/h	15300	14700	14000	13200	12300	11500	10600
	Watts	588	694	791	887	987	1100	1220
	Amps	6.72	7.31	7.99	8.77	9.65	10.6	11.6
	Lb/h	183	182	180	177	173	169	164
50	Btu/h	16700	16100	15300	14500	13600	12600	11700
	Watts	579	684	784	884	990	1110	1240
	Amps	6.63	7.22	7.93	8.74	9.66	10.7	11.8
	Lb/h	199	199	197	193	189	184	179
55	Btu/h	18300	17600	16800	15900	14900	13900	12900
	Watts	568	674	776	879	990	1110	1260
	Amps	6.51	7.11	7.83	8.67	9.63	10.7	11.9
	Lb/h	217	216	214	211	207	202	196

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.764809E+03	-1.658302E+03	3.669167E+00	2.271770E+01
C2	1.583240E+02	1.076889E+01	4.358724E-02	1.320330E+00
C3	1.263746E+02	5.165965E+01	3.073141E-02	1.593127E+00
C4	1.345080E+00	-3.184582E-02	4.284935E-04	8.264708E-03
C5	3.340666E-01	-2.336389E-01	-1.397819E-03	1.275366E-02
C6	-1.449199E+00	-3.743971E-01	1.394221E-04	-1.567645E-02
C7	4.441013E-03	2.931045E-04	-3.428722E-06	4.516056E-05
C8	-1.254582E-03	-5.446193E-04	-6.193218E-06	6.181964E-05
C9	-6.528612E-03	1.744971E-03	1.249575E-05	-9.772023E-05
C10	4.486479E-03	9.571331E-04	-7.406299E-07	4.863731E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

RGA5512EXA

General Information

Model	RGA5512EXA	**Refrigerant**	R-22
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	100V ~ 50HZ
Return Gas	10K (18°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-25	Watts (Capacity)	799			
	Watts (Power)	486			
	Amps	7.46			
-23.3	Watts (Capacity)	875	763		
	Watts (Power)	497	551		
	Amps	7.53	7.82		
-20	Watts (Capacity)	1040	914		
	Watts (Power)	515	583		
	Amps	7.66	8.04		
-15	Watts (Capacity)	1320	1180	1020	
	Watts (Power)	535	622	701	
	Amps	7.81	8.32	9.02	
-10	Watts (Capacity)	1660	1490	1290	1090
	Watts (Power)	547	649	752	847
	Amps	7.90	8.54	9.38	10.4
-6.7	Watts (Capacity)	1910	1720	1500	1270
	Watts (Power)	551	662	778	893
	Amps	7.93	8.66	9.58	10.7
-5	Watts (Capacity)	2050	1850	1620	1370
	Watts (Power)	552	668	790	913
	Amps	7.94	8.71	9.68	10.8
0	Watts (Capacity)	2500	2270	1990	1700
	Watts (Power)	551	677	817	966
	Amps	7.92	8.82	9.92	11.2

5	Watts (Capacity)	3020	2750	2430	2080
	Watts (Power)	547	680	835	1010
	Amps	7.84	8.87	10.1	11.5
7.2	Watts (Capacity)	3280	2980	2640	2260
	Watts (Power)	544	680	840	1020
	Amps	7.79	8.88	10.2	11.7
10	Watts (Capacity)	3620	3300	2930	2520
	Watts (Power)	540	678	845	1030
	Amps	7.71	8.87	10.2	11.8
15	Watts (Capacity)	4300	3930	3500	3020
	Watts (Power)	532	672	847	1050
	Amps	7.52	8.81	10.3	12.0

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.839880E+03	3.182650E+02	6.424630E+00	
C2	1.110580E+02	2.937520E+00	-8.883780E-02	
C3	5.397860E-01	2.957730E+00	1.962690E-02	
C4	1.649390E+00	9.269460E-02	-1.131450E-03	
C5	-2.299440E-01	-3.333620E-01	2.634800E-03	
C6	-4.610240E-01	1.905240E-01	1.005610E-03	
C7	7.576720E-03	1.864270E-03	0.000000E+00	
C8	-9.454180E-03	-5.707330E-03	0.000000E+00	
C9	-7.392510E-03	7.278720E-03	0.000000E+00	
C10	2.236220E-03	-1.000310E-03	0.000000E+00	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature